No.



9400137

ATTE OVICE END EXTENTES OF TAMERION

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Aorthrup King Company

Increas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE OVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT DEED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'S09-95'

In Testimonn Murror, I have hereunto set my hand and caused the seal of the Hant Harieta Protection Office to be affixed at the City of Washington, D.C. this thirty-first day of October in the year of our Lord one thousand nine hundred and ninety-five.

Attest:

Marche A. Stanton

Commissioner Plant Variety Protection Office Agricultural Marketing Service Histoman Lary of Syriculture

Public reporting burden for his collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions. Searching existing data sources, gathering and maintaining he day a needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Office, ORM, Room 404-W, Washington, D.C. 20250; and to the Office of Management and Budger, Paperwork Reduction Project (OMB #0581-0055), Washington, 20250.

of Management and Budge., Paperwork Reduction Project (OM8 #0581-00	155), Washington, 20250.	FORM APPROVED:	OM 8 0581-0055, Expires 1/31/91
U.S. DEPARTMENT OF AGRICULTURAL MARKE	AGRICULTURE TING SERVICE		Application is required in order to determine if a plant variety protection
APPLICATION FOR PLANT VARIET		N CERTIFICATE	certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).
NAME OF APPLICANT(5) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.	3. VARIETY NAME
Northrup King Co.		X9309, W802892	s09-95
ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)		5. PHONE (Include area code)	FOR OFFICIAL USE ONLY
P. O. Box 949			PVPO NUMBER
Washington, Iowa 52353-0949	•	319-653-2181	0784147
Attention: Dr. John C. Thorne		***************************************	9400137
			March 31, 1994
	·		4 - 1
GENUS AND SPECIES NAME	7. FAMILY NAME (Botan	** *	N Time
Glycine max	· Leguminosae	3	G A.M P.M.
CROP KIND NAME (Common Name)	9	DATE OF DETERMINATION	F Filing and Examination Fee:
		1.000 	E : 2,325.00
Soybean		November, 1988	s March 31, 1994
) IF THE APPLICANT NAMEO IS NOT A "PERSON," GIVE FORM OF ORGA	NIZATION (Corporation, pa	rinership, association, etc.)	R March Si,
Corporation			C Certificate Fee:
. IF INCORPORATED, GIVE STATE OF INCORPORATION	12. 0	ATE OF INCORPORATION	1 1:300.50
Delaware		1976	E Date VIII 4 1905
			0 Cug. 1/1/2
. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO	O SERVE IN THIS APPLICAT	ION AND RECEIVE ALL PAPERS	
Dr. John C. Thorne	*		
Northrup King Co.			
P. O. Box 949			010 550 5545
Washington, Iowa 52353-0949		PHONE (Include area cod	_{ют} 319-653-6645
CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (FO	How INSTRUCTIONS on reve	ersa)	
a. X Exhibit A, Origin and Breeding History of the Variety.			
b. X Exhibit B, Novelty Statement.			
c. X Exhibit C. Objective Description of Variety.			
d Exhibit O, Additional Description of Variety.	, e		
a. X Exhibit E. Statement of the Basis of Applicant's Owners	•		S. Carlotte
Seed Sample (2,500 viable untreated seeds). Date Seed			
g. X Filing and Examination Fee (\$2,150) made payable to			
5. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE S			e section 83(a) of the Plant Variety .
YES (If "YES," answer items 16 and 17 b	Contract Con	NO," skip to item 18 below)	
DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS NUMBER OF GENERATIONS?	S TO 17. IF "YES"	TO ITEM 16, WHICH CLASSES OF PRODU	CTION BEYONG BREEDER SEED!
TYES X NO		DUNDATION REGIST	ERED CERTIFIED
Trends -			
3. DIO THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE V	ARIETY IN THE U.S.?		
YES (If "YES," through Plant Variety Protection Act	Patent Act. Give d	ate	
X NO			N.
HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR	MARKETED IN THE U.S. OR	OTHER COUNTRIES?	
YES (II "YES," give names of countries and dates)			
cu X			
		<u></u>	
The applicant(s) declare(s) that a viable sample of basic s	eeds of this variety wi	II be furnished with the application	on and will be replenished upon
request in accordance with such regulations as may be app	olicable.		
The undersigned applicant(s) is (are) the owner(s) of thi	s sexually reproduced	novel plant variety, and believe	e(s) that the variety is distinct, Plant Variety Protection Act.
uniform, and stable as required in section 41, and is entitl	ea to protection under	the provisions of Section 42 of the .	
Applicants) is (are) informed that false representation he	rein can jeopardize pro	nection and result in penalties.	
GNATURE OF APPLICANT OF MONTHS	CAPACITY OF	TITLE	DATE
$() \mathcal{L} / \mathcal{L} / \mathcal{L} $, ,	- Daganak Dimastan	3-14-94
John (. Ihane	Soybear	n Research Director	1 1-19-94
GNATURE OF APPLICANT (Owner(s))	CAPACITY OF	TITLE	DATE
V	·		
•	I		

ORM CSSD-470 (5-89) Edition of FORM LS-470, 3-86, is obsolete

EXHIBIT A

Origin and Breeding History of the Variety

The soybean variety 'S09-95' is derived from the cross 'S07-80' x 'S23-03'. The cross was made in the winter of 1986 at the Northrup King Research Center at Waimea, Kauai, Hawaii, by the Northrup King Co. soybean research personnel. The F1 generation was grown at the Northrup King Co. Research Center at Washington, Iowa in the summer of 1986. The F2 and F3 generations were grown at Waimea during the winter of 1986-87, and the F4 at Washington in the summer of 1987. The F2 and F3 were advanced by harvesting 2-4 seeds from each plant and planting a 600 seed sample from the bulk. In the fall of 1987 approximately 100 random plants were harvested and threshed individually. The progeny from these plants were grown as F5 plant rows at Washington in the summer of 1988. One of these, numbered W802892, was selected on the basis of agronomic appearance and tested in a preliminary year yield trial in 1989. This line was subsequently tested under the temporary designation X9309 and named It has been tested at several northern U.S. and southern S09-95. Ontario locations from 1990 to 1993 and found to yield well compared to other late Maturity Group 0 cultivars. Descriptive traits including purple flowers, grey pubescence, brown pods, and buff hilum (up to 2% other hilum color), have been identified and confirmed. S09-95 has been tested in the field for iron-deficiency chlorosis at test sites in Northern Iowa and Southern Minnesota in 1990 through 1993 and found to be moderately resistant compared to varieties of known reaction. It has been tested for reaction to Race 1, 3, 4 and 7 of Phytophthora megasperma using hypocotyl inoculation of greenhouse grown plants and found susceptible.

In the winter of 1991-92, 2500 carefully hand-rogued seeds of S09-This increase block was carefully 95 were planted at Waimea. rogued and any off-type plants were removed. This increase was bulk threshed in May, 1992. The seed was planted near Washington in 1992 to produce the initial Breeder Seed. In addition, 100 plants were harvested and threshed individually and their progeny planted at Washington in the summer of 1992 to monitor variability and to produce Pedigree Seed. A few plants with white flowers or tawny pubescence were removed. These plants were assumed to have come from admixture or out-crossing. The other rows were uniform and were bulked to produce Pedigree Seed. This seed was planted in 1993 to produce a purified source of Breeder Seed. Both the 1992 and 1993 Breeder Seed increase blocks were rogued carefully during flowering and at maturity.

Foundation Seed of S09-95 was produced in 1993 from 1992 Breeder Seed. The Iowa Crop Improvement Association inspected the fields and found them to meet the standards for Foundation Seed. The National Soybean Variety Review Board approved the variety for Certification on December 10, 1993.

S09-95 is a stable and uniform variety. Over five years of testing and three cycles of seed increase, no other variants have been observed. Any off-type plants which were removed from increase fields were assumed to have arisen from admixture or outcrossing.

Varietal purity will be maintained using progeny rows as described above as needed.

EXHIBIT B

Novelty Statement for the Variety

Soybean variety S09-95 is most similar to B117. It can be differentiated from B117 on the basis of hilum color. Seeds of S09-95 have buff hila (up to 2% other); seeds of B117 have yellow hila (up to 2% other).

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY

SOYBEAN (Glycine max L.)

SUIBER	(IV (Glycine max L.)	
NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Northrup King Co.	X9309, W802892	s09 - 95
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code	e)	FOR OFFICIAL USE ONLY
P. 0. Box 949		PVPO NUMBER
Washington, Iowa 52353-0949 Attention: John Thorne		9400137
Choose the appropriate response which characterizes the var in your answer is fewer than the number of boxes provided,	iety in the features described l place a zero in the first box w	pelow. When the number of significant digits
1. SEED SHAPE: 2 1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	T 2 = Spherical Flattened	(L/W ratio > 1.2; L/T ratio = < 1.2) L/T ratio > 1.2; T/W > 1.2)
2. SEED COAT COLOR: (Mature Seed)		
1 1 = Yellow 2 = Green 3 = Brown	4 = Black .5 = Other	(Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		
2 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebso	oy'; 'Gasoy 17')	
4. SEED SIZE: (Mature Seed)		
1 6 Grams per 100 seeds		
5. HILUM COLOR: (Mature Seed)		
1 = Buff 2 = Yellow 3 = Brown Up to 2% other hilum color.	4 = Gray 5 = Imperfect Bla	ck 6 = Black 7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)		
1 = Yellow 2 = Green		
7. SEED PROTEIN PEROXIDASE ACTIVITY:		
2 1 = Low 2 = High		
8. SEED PROTEIN ELECTROPHORETIC BAND:		
1 = Type A (SP1 ^a) 2 = Type B (SP1 ^b)		
9. HYPOCOTYL COLOR:		
1 = Green only ('Evans'; 'Davis') 2 = Green wit 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson';	h bronze band below cotyledons ('Coker Hampton 266A')	'Woodworth'; 'Tracy')
10. LEAFLET SHAPE:		
3 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)	

11. LEA	FLET SIZE:	
2	1 = Small ('Amsoy 71'; 'A5312') 3 = Large ('Crawford'; 'Tracy')	2 = Medium ('Corsoy 79'; 'Gasoy 17')
12 1 EA	F COLOR:	
IZ. LEA		
2	1 = Light Green ('Weber'; 'York') 3 = Dark Green ('Gnome'; 'Tracy')	2 = Medium Green ('Corsoy 79'; 'Braxton')
13. FLO	WER COLOR:	
2	1 = White 2 = Purple	3 = White with purple throat
14. POD	COLOR:	
2	1 = Tan 2 = Brown	3 = Black
15. PLAN	NT PUBESCENCE COLOR:	
1	1 = Gray 2 = Brown (Tewny)	
16. PLAN	IT TYPES:	
	1 = Slender ('Essex'; 'Amsoy 71') 3 = Bushy ('Gnome'; 'Govan')	2 = Intermediate ('Amcor'; 'Braxton')
17. PLAN	IT HABIT:	
3	1 = Determinate ('Gnome'; 'Braxton') 3 = Indeterminate ('Nebsoy'; 'Improved F	2 = Semi-Determinate ('Will') Pelican')
18. MATU	JRITY GROUP:	
3	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VI	4=1 5=11 6=111 7=IV 8=V III 12=1X 13=X
19. DISEA	ASE REACTION: (Enter 0 = Not Tested; 1 *	* Susceptible; 2 ≈ Resistant)
BAC	TERIAL DISEASES:	
	Bacterial Pustule (Xanthomonas phaseoli	var. sojensis)
	Bacterial Blight (Pseudomonas glycinea)	
	Wildfire (Pseudomonas tabaci)	
FUNG	AL DISEASES:	
[1]	Brown Spot (Septoria glycines)	
	Frogeye Leaf Spot (Cercospora sojina)	
0	Race 1 Race 2 F	Race 3 Race 4 Race 5 Other (Specify)
0	Target Spot (Corynespora cassiicola)	
0	Downy Mildew (Peronospora trifoliorum v	er. manshurica)
Ī	Powdery Mildew (Microsphaera diffusa)	
同	Brown Stem Rot (Cephalosporium gregatu	m)
	Stem Canker (Diaporthe phaseolorum var.	caulivora)

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S BISEASE DE	ACTION (Company)	Parisant (Carriewed)		
	ACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = 0	(Continued)		
FUNGAL E	DISEASES: (Continued)			
Pod	and Stem Blight (Diaporthe phaseolorum var; sojae)		•	
1 Purp	le Seed Stain (Cercospora kikuchii)			
0 Rhiz	octonia Root Rot (Rhizoctonia solani)	•		
Phyt	ophthora Rot (Phytophthora megasperma var. sojae)			· .
☐ Race	1 Race 2 0 Race 3 1	Race 4 0 Race 5	0 Race 6	Race 7
0 Race	8 0 Race 9 Other (Specify)			
VIRAL DIS	EASES:			
0 Bud	Blight (Tobacco Ringspot Virus)			
0 Yello	ow Mosaic (Bean Yellow Mosaic Virus)		·	
0 Cow	pea Mosaic (Cowpea Chlorotic Virus)			
0 Pod	Mottle (Bean Pod Mottle Virus)		·	
T Seed	Mottle (Soybean Mosaic Virus)			p.
NEMATOD	E DISEASES:			
Soyt	ean Cyst Nematode (Heterodera glycines)			· ·
0 Race	1 0 Race 2 1 Race 3 1	Race 4 Other (Specify)	
0 Land	e Nematode (Hopiciaimus Colombus)			
0 Sout	nern Root Knot Nematode (Meloidogyne incognita)			
0 Nort	nern Root Knot Nematode (Meloidogyne Hapla)	•		
Pean	ut Root Knot Nematode (Meloidogyne arenaria)			•
0 Reni	iorm Nematode (Rotylenchulus reniformis)			
ОТН	ER DISEASE NOT ON FORM (Specify):			the Copy.
PHYSIOLOGI	CAL RESPONSES: (Enter 0 = Not Tested; 1 = Suscept	tible; 2 = Resistant)		
2 Iron	Chlorosis on Calcareous Soil Moderately Re	sistant		
Othe	(Specify)	And the second s		<u> </u>
. INSECT REA	CTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Re	sistant)	to the second second	
0 Mexi	can Bean Beetle (Epilachna varivestis)			
0 Potat	o Leaf Hopper (Empoasca fabae)			
=	(Specify)			
	HICH VARIETY MOST CLOSELY RESEMBLES THA	T SUBMITTED.		
CHARACTE		CHARACTER	NAME	OF VARIETY
Plant Shape	B117	Seed Coat Luster	S07-	80
Leaf Shape	B117	Seed Size	S07-	80
Leaf Color	B117	Seed Shape	B117	
Leaf Size	B117	Seedling Pigmentation	S23-	03
		Bolling to the first term of the first	1	•

FORM LMGS-470-57 (2-8

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23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF PLANT DAYS LODGIN MATURITY SCORE		1	LEAFLET SIZE		3SEED CONTENT 13% Moisture		SEED SIZE G/100	NO.
. 	INA I UNIT T	SCORE HEIG	HEIGHT	SHT CM Width	CM Length	% Protein	% Oil	SEEDS	SEEDS/ POD
Submitted	130	1.8	79			36.5	17.5	16.3	2 . 4
B117 Name of Similar Variety	132	1.9	79			36.4	17.6	15.6	2-4

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

EXHIBIT E

Statement of the Basis of Applicant's Ownership

Soybean variety S09-95 was developed from germplasm sources cited in Exhibit A of this application. Northrup King Co. believes that the variety is novel as defined in the Plant Variety Protection Act and, therefore, that Northrup King is the sole owner of the variety.